

Title: METHOD FOR MEASURING AND  
COMPENSATING SKEWS OF DATA  
TRANSMISSION LINE  
Applicant: Paul Georg Lindt  
Serial No.: 10/808,145  
Atty Docket: 1406/142/2

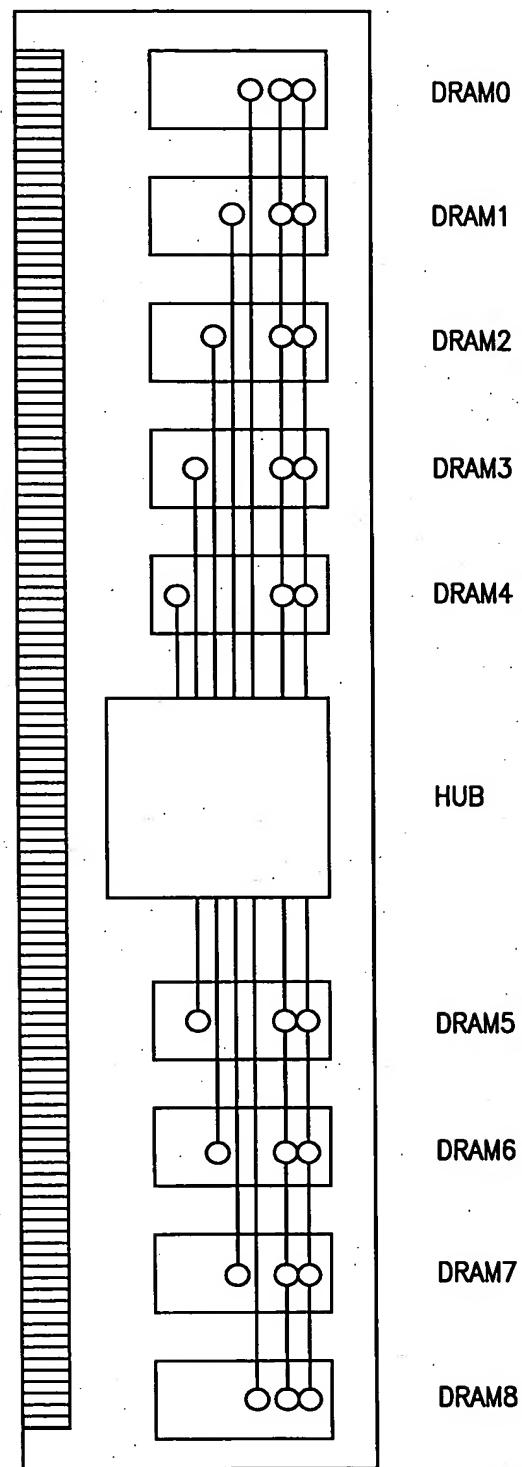


FIG. 1

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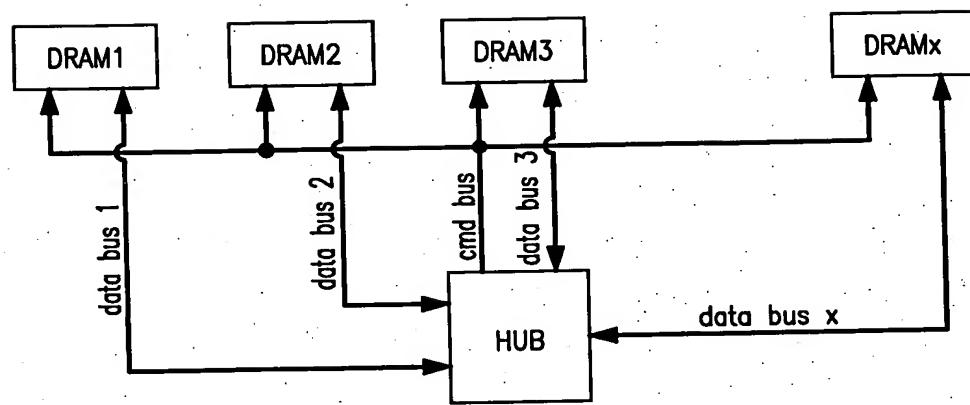


FIG. 2

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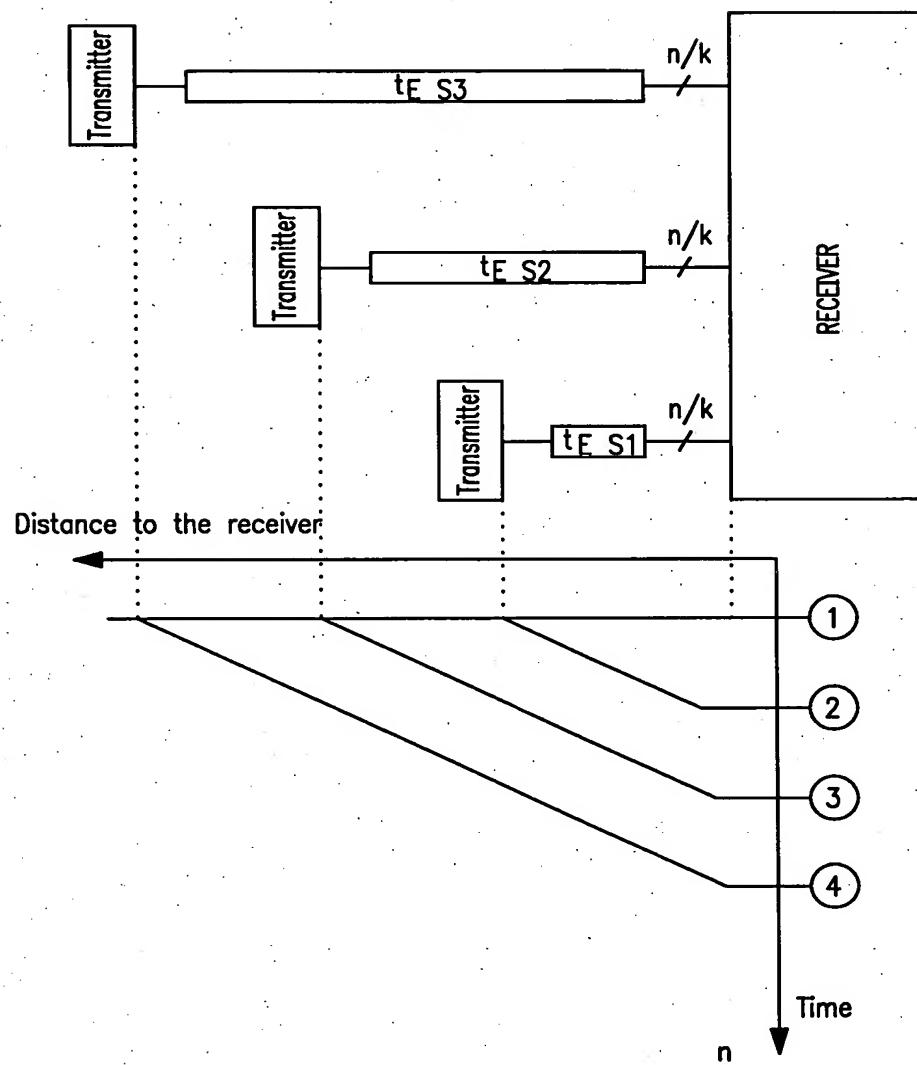
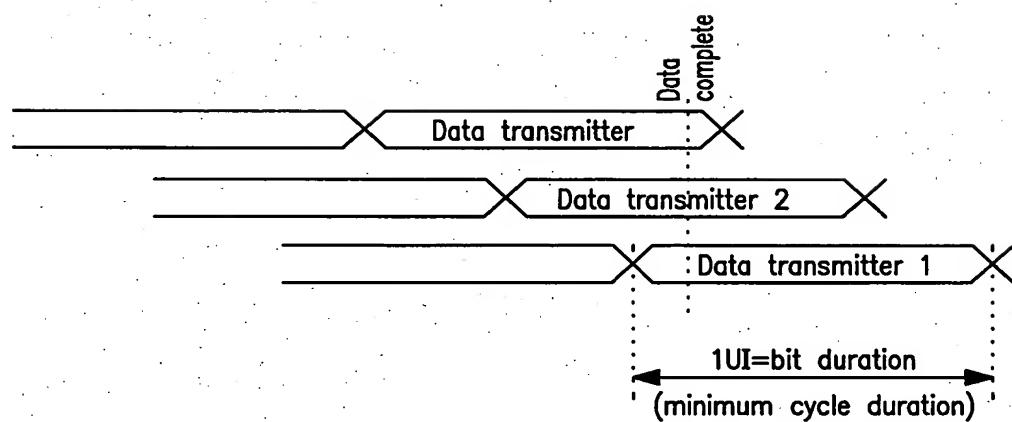


FIG. 3

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Danger to data integrity resulting from delay time differences

FIG. 4

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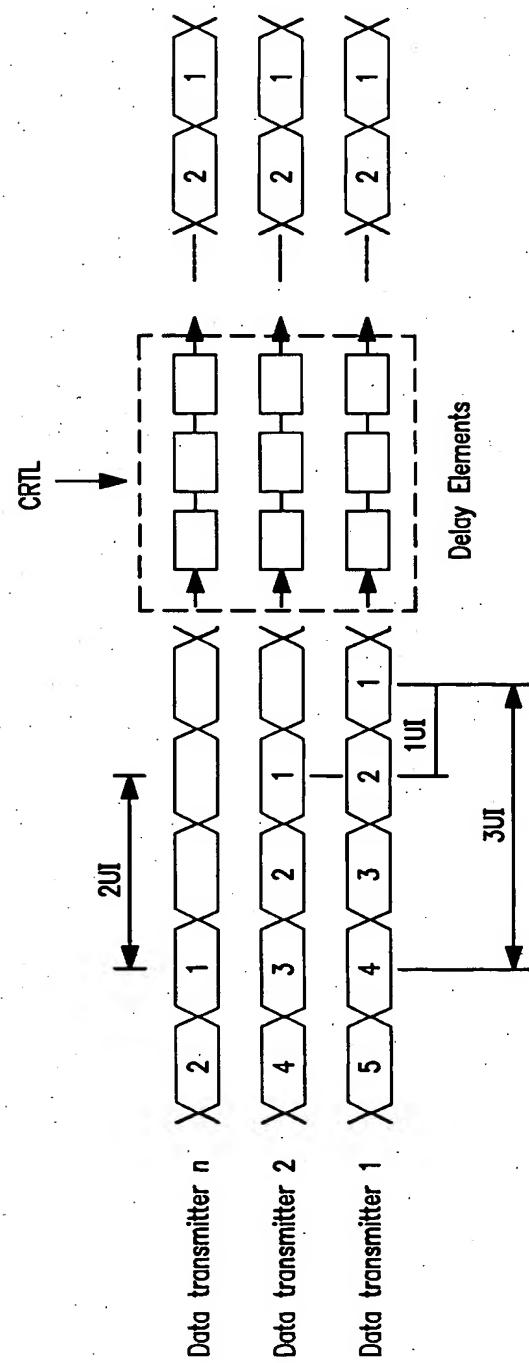


FIG. 5

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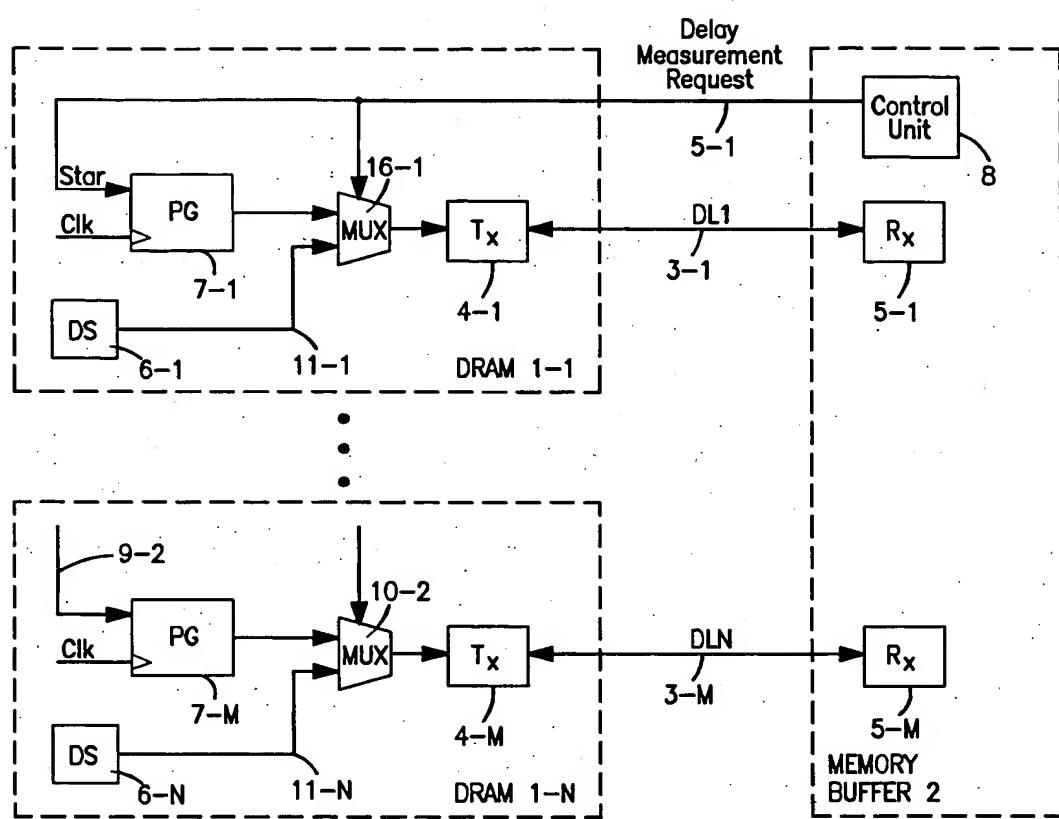


FIG. 6

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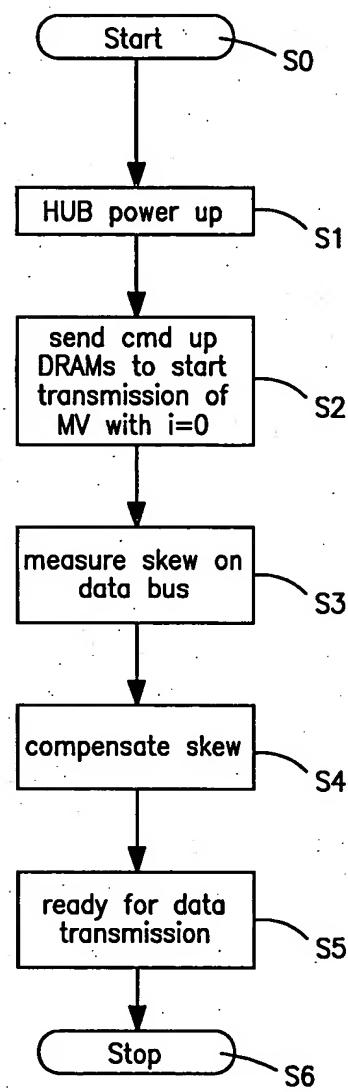


FIG. 7

Skew Measurement Procedure (S3)

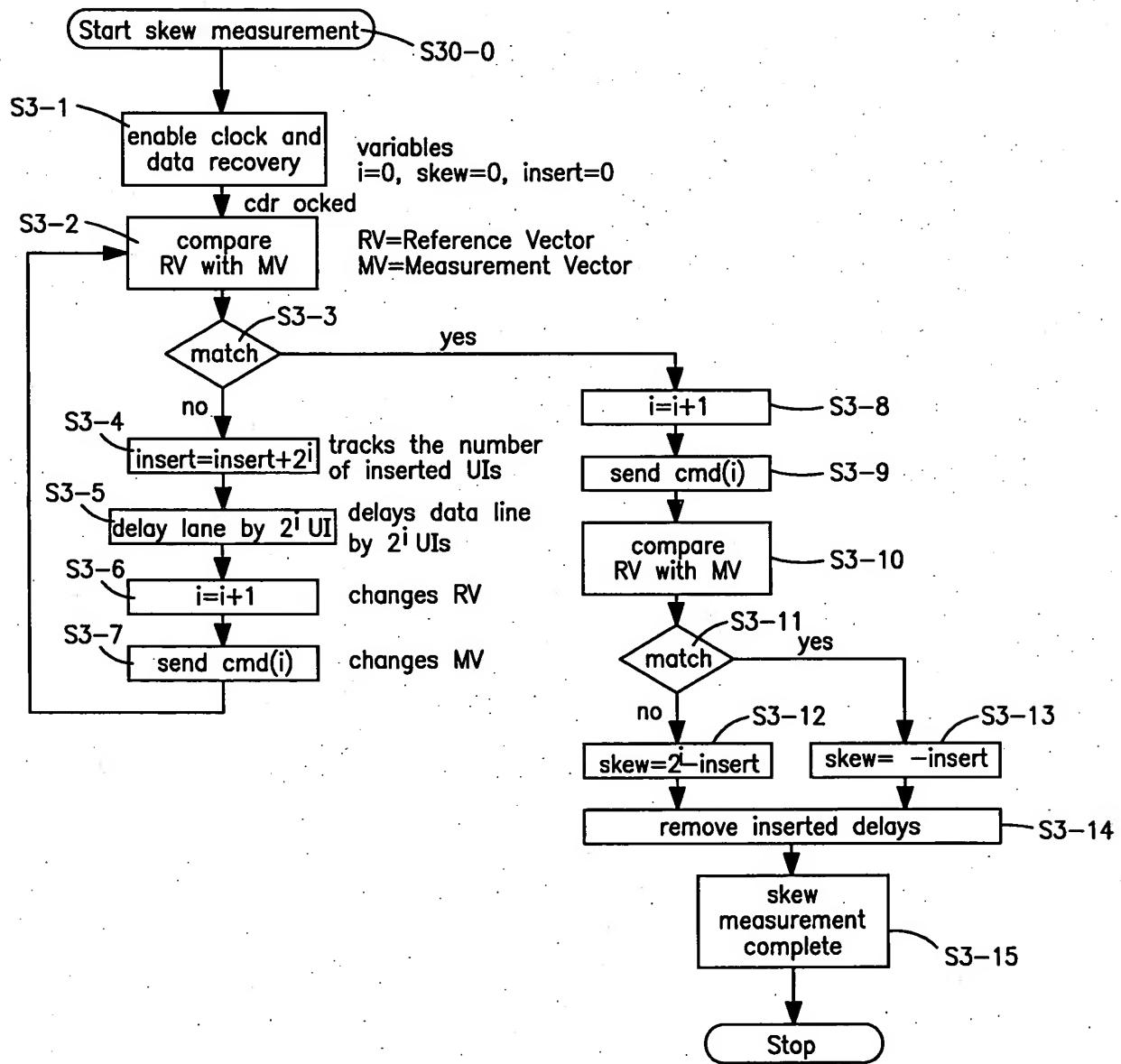


FIG. 8

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+3UI

i=0	RV	1	0	1	0	1	0	1	0	1	0	1	0	1	0
	MV	0	0	0	1	0	1	0	1	0	1	0	1	0	1

cmp result 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 static "1" identifies negative match  
→  $2^0$  UI skew identified.  
Insert = 1

FIG. 9a

i=1	RV	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0
	MV	0	0	0	0	1	1	0	0	1	1	0	0	1	1	0	0

cmp result 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 static "0" identifies positive match  
→ exit condition from loop

FIG. 9b

i=2 RV 1 1 1 1 0 0 0 0 1 1 1 1 1 0 0 0 0 1 1  
 MV 0 0 0 0 1 1 1 1 0 0 0 0 0 1 1

FIG. 9c

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-3UI

FIG. 10a

FIG. 10b

FIG. 10c

FIG. 10d

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Skew Compensation Procedure (Step S4)

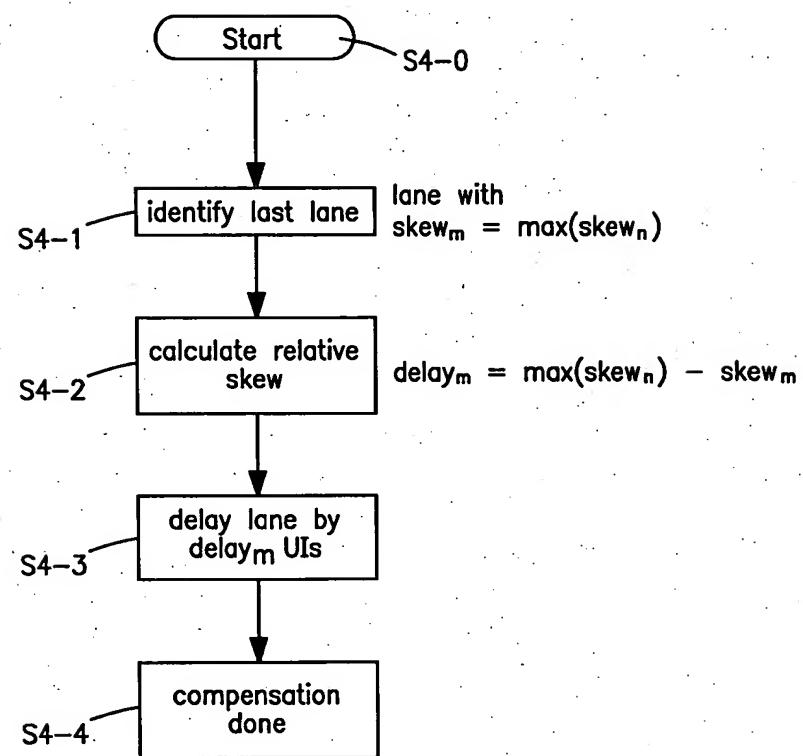


FIG. 11